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1. [AF141-028: Multimodal-Multidimensional image fusion for morphological and functional evaluation of the retina](#)

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop a software platform capable of integrating information collected over repeated experiments and from disparate sensors to facilitate the measurement of the physiological response of ocular-tissue to damaging levels of light. DESCRIPTION: The technological fields of ocular imaging and visual functional testing are rapidly evolving as independent approaches for the investig ...

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2. [AF141-029: Mobile Motion Capture for Human Skeletal Modeling in Natural Environments](#)

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop hardware and/or software tools to accurately determine full body segment positions and orientations of a person performing various activities in natural indoor and outdoor environments. DESCRIPTION: Full-body human motion capture has a variety of important applications within the Air Force and Department of Defense, as well as in numerous commercial industries, such as ...

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3. [AF141-030: Synthetic Task Environment for Primary & Secondary Assessment in Trauma Care](#)

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: To develop and demonstrate a synthetic task environment for primary and secondary assessment in trauma care. This includes the capacity for creating/editing scenarios, recording performance and simulation data, and interoperating with external sims. DESCRIPTION: Trauma care is an essential skill for medical professionals in the Department of Defense. The most critical aspect of ...

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4. [AF141-031: Adaptive, Immersive Training to Counter Deception and Denial Tactics, Techniques and Procedures (TTPs) for C4ISR Networks](#)

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop a cyber-training environment that represents current actual environments and can be easily adapted by the users to support different training requirements. DESCRIPTION: Cyber warfare is no longer a nascent domain with few players and negligible consequences. In the past two decades, state and non-state actors have repeatedly demonstrated the capability and intent to exer ...

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5. AF141-032: Sharing of Intelligence and Planning Information for Multi-Agency Coordination

  Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop human-computer interfaces to enhance multi-agency collaboration in response to world situations including foreign and non-government agencies. Improve information sharing to support diplomatic, information, military, and economic efforts. DESCRIPTION: This effort aims to improve collaborative decision making for Political, Military, Economic, Social, Infrastructure and ...

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6. AF141-035: Expand Data Transfer Rates within Legacy Aircraft (ERLA)

  Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop the capability to grow legacy aircraft mission capabilities by increasing the intercommunications data rate within the aircraft to at least 100 Mbps without the addition of new wire or cable infrastructure. DESCRIPTION: The intercommunication data rate (IDR) of legacy aircraft is a limiting factor for transferring data between positions on the vehicle. Current missions h ...

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7. AF141-036: Logistics Data Management, Error Handling, Corrective Action Framework

  Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an architecture, technology roadmap, and working prototype that operationalizes Logistics Systems Data Error Handling, Analytics, and Corrective Action Management Activities. DESCRIPTION: Air Force IT system modernization efforts continue to highlight the growing need for robust, standards-based, open service-oriented architectures. There is a critical need to provide a ...

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8. AF141-037: Laser for Airborne Communications (LAC)

  Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Free Space Optical (FSO) based communication system supporting very high bandwidth communications for the airborne and surface layers. Threshold: reliable long-distance communication among moving platforms in wide variety of weather conditions. DESCRIPTION: The purpose of this topic is to explore innovative free space optical (FSO) based hardware and software approaches and impl ...

9. AF141-038: Layered Virtualization Detection of Malicious Software Behavior ("Inception")

 Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Create an appliance which uses one or more layers of Type 2 (software) virtualization within a Type 1 ("bare metal") Hypervisor infrastructure which uses introspection to foil virtualization-aware malware escape attempts. DESCRIPTION: Modern malware (viruses, Trojans, etc.) will attempt to adapt to the environment they are executed in. For instance, many versions of modern malwa ...

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10. AF141-039: Process Level Virtualization for System Assurance

 Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Assure the proper handling of information from cradle to grave by leveraging process level virtualization throughout the information life cycle. This should also reduce malware propagation and improve access control, among other useful features. DESCRIPTION: Process level virtualization (such as Bromium"s"micro virtualization,"FreeBSD"Jails"or Qubes OS""AppVM,"among others) crea ...

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